

Please amend the claims as follows:

(currently amended) An integrated low profile display <u>apparatus</u>, comprising:
a substrate having a first surface and a second surface;

said substrate defining at least one penetration extending through said substrate from said first surface to said second surface;

each said penetration having a side wall, an entrance opening defined by said first surface, and an exit opening defined by said second surface; and

at least one light emitting device;

each said light emitting device mounted to said first surface of said substrate proximate the entrance opening of a corresponding penetration and adapted to selectively admit light to said penetration via said entrance opening; and

each said light emitting device being electrically connected to a corresponding electrical conductor disposed on said substrate.

- 2. (original) The apparatus of claim 1 wherein said substrate is of substantially uniform thickness.
- 3. (original) The apparatus of claim 1 wherein said substrate is of varying cross-section.
- 4. (original) The apparatus of claim 1 wherein said substrate comprises a printed wiring board.

- 5. (original) The apparatus of claim 1 wherein said substrate comprises a user interface panel.
- 6. (original) The apparatus of claim 1 wherein said side wall is covered with a substantially opaque material.
- 7. (original) The apparatus of claim 6 wherein said substantially opaque material is a reflective material.
- 8. (original) The apparatus of claim 7 wherein said reflective material is a paint.
- 9. (original) The apparatus of claim 7 wherein said reflective material is a reflective coating.
- 10. (original) The apparatus of claim 1 further comprising a light guide within said penetration.
- 11. (original) The apparatus of claim 10 wherein said light guide comprises a material having a high index of refraction.
- 12. (original) The apparatus of claim 11 wherein said material having a high index of refraction comprises a light transmissive epoxy.

- 13. (original) The apparatus of claim 10 wherein said substrate comprises a substantially opaque material.
- 14. (original) The apparatus of claim 10 wherein said substrate comprises a material substantially impervious to light transmission.
- 15. (currently amended) The apparatus of claim 1 further comprising a light diffuser associated with said exit opening of said bore penetration.
- 16. (original) The apparatus of claim 15 wherein said diffuser comprises a layer of light transmissive material applied over said exit opening.
- 17. (previously presented) The apparatus of claim 1 wherein said light emitting device comprises a light emitting diode.
- 18. (previously presented) The apparatus of claim 1 wherein said light emitting device comprises a lamp.
- 19. (previously presented) The apparatus of claim 1 wherein said light emitting device comprises an OLED.
- 20. (previously presented) The apparatus of claim 1 wherein said light emitting device comprises a PLED.

- 21. (currently amended) The apparatus of claim 1 wherein said display comprises a single element defined by a single aperture penetration.
- 22. (currently amended) The apparatus of claim 1 wherein said display comprises plural elements defined by plural apertures penetrations.
- 23. (original) The apparatus of claim 1 further comprising at least one electronic component mounted on said substrate.
- 24. (original) The apparatus of claim 23 wherein said electronic component comprises a sensor.
- 25. (original) The apparatus of claim 24 wherein said sensor comprises at least a first electrode disposed on said substrate.
- 26. (original) The apparatus of claim 25 wherein said sensor further comprises a second electrode disposed on said substrate.
- 27. (original) The apparatus of claim 25 wherein said sensor further comprises an active component electrically coupled to said first electrode.
- 28. (original) The apparatus of claim 25 wherein said sensor further comprises an integrated control circuit electrically coupled to said first electrode.

29. (currently amended) An integrated low profile display apparatus, comprising:
a substrate having a first surface and a second surface;
said substrate defining at least one cavity;

said cavity having a <u>substantially opaque</u> side wall, an entrance opening defined by said first surface, and a closed end; and

at least one light emitting device;

each said light emitting device mounted to said first surface of said substrate proximate the entrance opening of a corresponding cavity and adapted to selectively admit light to said penetration via said entrance opening.

- 30. (original) The apparatus of claim 29 wherein said substrate is of substantially uniform thickness.
- 31. (original) The apparatus of claim 29 wherein said substrate is of varying cross-section.
- 32. (original) The apparatus of claim 29 wherein said substrate comprises a printed wiring board.
- 33. (original) The apparatus of claim 29 wherein said substrate comprises a user interface panel.
- 34. (original) The apparatus of claim 29 wherein said side wall is covered with a substantially opaque material.

- 35. (original) The apparatus of claim 34 wherein said substantially opaque material is a reflective material.
- 36. (original) The apparatus of claim 35 wherein said reflective material is a paint.
- 37. (original) The apparatus of claim 35 wherein said reflective material is a reflective coating.
- 38. (original) The apparatus of claim 29 further comprising a light guide within said penetration.
- 39. (original) The apparatus of claim 38 wherein said light guide comprises a material having a high index of refraction.
- 40. (original) The apparatus of claim 39 wherein said material having a high index of refraction comprises a light transmissive epoxy.
- 41. (original) The apparatus of claim 38 wherein said substrate comprises a substantially opaque material.
- 42. (original) The apparatus of claim 38 wherein said substrate comprises a material substantially impervious to light transmission.

- 43. (currently amended) The apparatus of claim 29 further comprising a light diffuser associated with said exit opening of said bore closed end of said cavity.
- 44. (currently amended) The apparatus of claim 43 wherein said diffuser comprises a layer of light transmissive material applied over said exit opening closed end of said cavity.
- 45. (previously presented) The apparatus of claim 29 wherein said light emitting device comprises a light emitting diode.
- 46. (previously presented) The apparatus of claim 29 wherein said light emitting device comprises a lamp.
- 47. (previously presented) The apparatus of claim 29 wherein said light emitting device comprises an OLED.
- 48. (previously presented) The apparatus of claim 29 wherein said light emitting device comprises a PLED.
- 49. (currently amended) The apparatus of claim 29 wherein said display comprises a single element defined by a single aperture cavity.
- 50. (currently amended) The apparatus of claim 29 wherein said display comprises plural elements defined by plural apertures cavities.

- 51. (original) The apparatus of claim 29 further comprising at least one sensor mounted on said substrate.
- 52. (original) The apparatus of claim 51 wherein said sensor comprises at least a first electrode disposed on said substrate.
- 53. (original) The apparatus of claim 52 wherein said sensor further comprises a second electrode disposed on said substrate.
- 54. (original) The apparatus of claim 52 wherein said sensor further comprises an active component electrically coupled to said first electrode.
- 55. (original) The apparatus of claim 52 wherein said sensor further comprises an integrated control circuit electrically coupled to said first electrode.